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PATENT

Docket No. 15436.249.9.3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Xie et al.

Serial No.: 10/661,991

Filed: Sep. 11, 2003

Art Unit
2872

For: OPTICAL FILTER FOR WAVELENGTH
DIVISION MULTIPLED OPTICAL SIGNALS

Examiner: Mohammad Sikder

Patent No.: US 6,845,191 B1

Issue Date: Jan. 18, 2005

REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
AUG 07 2006
of Correction

Sir:

In accordance with the provisions of 37 C.F.R. § 1.323 which implement 35 U.S.C. § 255, the Commissioner is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form 1050 reflects the desired corrections. Also enclosed please find a check in the amount of \$100.00 to cover the costs for issuance of this certificate.

08/03/2006 YFOLITE1 00000024 6845191
01 FC:1811

100.00 QP

AUG 07 2006

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178. Duplicate copies of this letter are enclosed.

Dated this 21 day of July, 2006.

Respectfully submitted,



Eric L. Maschoff
Attorney for Patentee
Registration No. 36,596
Customer No. 022913

ELM:jsb
Docket No. 15436.249.9.3
PR0000001645V001

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 31 day of July, 2006.



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323,
PTO Form 1050 and Check No. 148148 for \$100.00

AUG 07 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : US 6,845,191 B1

DATED : Jan 18, 2005

INVENTOR(S) : Xie et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Cover Page,

Item (54), after "DIVISION" change "MULTIPLED" to --MULTIPLEXED--

Column 1,

Line 19, after "optical" change "filers" to --filters--

Line 31, change "different portion," to --different portions,--

Line 50, change "processes" to --process--

Line 57, change "Battening" to --flattening--

Column 2,

Line 20, before "dispersion" insert --the--

Line 21, change "filter" to --filters--

Line 21, after "OC-192" change "signal" to --signals--

Column 3,

Line 30, after "will become" change "ore" to --more--

Line 40, change "dispersions profiles" to --dispersion profiles--

Column 4,

Line 36, change "EMBODIMENT" to --EMBODIMENTS--

Line 44, after "mux/demux can" insert --,--

Column 5,

Line 30, after "delay path" change "with" to --within--

Line 53-54, change "Others of the cells," to --Other cells,--

Line 54, after "harmonic cell(s)" insert --,--

Line 60, after "of the cells" insert --,--

Line 63, change "GHzThe" to --GHz. The--

Line 64, after "paths in a filter" remove [,]

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PATENT NO. US 6,845,191 B1

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Column 6,

Line 5, change "L₁ and L₁" to --L₁ and L₀--
 Line 6, after "substage" insert --;
 Line 7, after "cells" remove [,]
 Line 9, after "cell" insert --,--
 Line 40, change "theft" to --the first--
 Line 42, after "dispersion" change "in" to --within--
 Line 43, after "signal integrity" insert --within--
 Line 49, change "FIGS. 2A-8" to --FIGS. 2A-B--

Column 7,

Line 2, change "Cb 9-Ch 13," to --Ch 9-Ch 13,--
 Line 3, after "the vertical" change "was" to --axis--
 Line 37, change "380° to 720°" to --360° to 720°--
 Line 45, after "even channels" change "experience" to --experiencing--
 Line 53, after "retardations of" remove [the]

Column 8,

Line 6, after "flat line response" insert --,--
 Line 7, change "stop bends" to --stop bands--
 Line 10, change "sign diagrams" to --signal diagrams--
 Line 14, change "fist and slow pats" to --fast and slow paths--
 Line 22, after "in this example" insert --,--
 Line 54, after "in this example" insert --,--

Column 9,

Line 25, change "Supposed" to --Superimposed--
 Line 58, before "port 136" change "renaming" to --remaining--

Column 10,

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Line 9, after "Path 516 would" remove [in]
 Line 34, before "cell 570." change "with" to --within--
 Line 41, after "The couplers" remove [may]
 Line 51, change "sub-stages" to --sub-stage's--
 Line 58, after "stopbands" remove [of]
 Line 65, change "do-interleaved" to --de-interleaved--

Column 11,

Line 10, after "couple would" remove [of]
 Line 37, before "be fabricated" change "ma" to --may--
 Line 38, after "dielectric" change "coat" to --coatings--
 Line 42, change "filters 630 and 66." to --filters 630 and 660.--

Column 12,

Line 4, change "fist path," to --fast path,--
 Line 21, after "Where the cell" change "if" to --is--
 Line 30, change "two filter calls," to --two filters cells,--
 Line 30, change "serial coupled" to --serially coupled--
 Line 31, between "Each" and "serially" insert the following missing line:
 --cell includes a pair of delay paths. Filter 660 also includes two
 filter cells 670, 680--
 Line 35, change "Del" to --Delay--
 Line 54, change "sub-stages" to --sub-stage's--
 Line 61, after "stopbands" remove [of]

Column 13,

Line 8, after "half waveplate" insert --,--
 Line 10, after "polarization vector" remove [,]
 Line 13, after "amount 2Φ " insert --,--
 Line 16, after "full waveplate" insert --,--

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 17, change "polarized light" to --polarized light--

Line 19, after "polarization vector" remove [,]

Line 22, after "FIGS. 7A-D" insert --,--

Line 62, after "The linearly" change "polar" to --polarized--

Column 14,

Line 15, before "by waveplates" change "polarized" to --linearized--

Line 25, before "the incident wavelength." remove [A]

Line 28, change "optical bean" to --optical beam--

Line 63, change "Light transit" to --Light transmitted--

Column 15,

Line 4, change "realigns" to --re-aligns--

Line 15, change "beam splitter 134" to --beam splitter 1134--

Line 21, after "beam splitter" change "are" to --is--

Line 23, change "fist coupler" to --first coupler--

Line 24, change "corresponded" to --correspond--

Line 35, after "two pairs of" change "prism." to --prisms--

Line 35, change "block 110" to --block 1110--

Line 36, change "beam splitter 114" to --beam splitter 1114--

Line 50, change "exterior surfs" to --exterior surfaces--

Line 54, change "second block 130." to --second block 1130--

Column 16,

Line 35, change "vectors 156-1158." to --vectors 1156-1158--

Line 37, after "center wavelengths" insert --,--

Line 62, change "reflectors 1112 and 1130" to --reflectors 1112 and 1132--

Column 17,

Line 12, change "within an." to --within an--

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Line 48, change "The cell 1102" to --The cell 1106--

Line 67, before "either delay path" remove [the]

Column 18,

Line 10, change " θ_{r1} and θ_{R1} " to -- θ_{T1} and θ_{R1} --

Line 40, change "component" to --components--

Line 41, before "a net change" insert --in--

Line 50, change "is shown is cleaved" to --is shown cleaved--

Column 19,

Line 28, change "are rennin" to --are realized--

Line 43, change "cell 100" to --cell 1100--

Line 46, change "cell 100" to --cell 1100--

Column 20,

Line 9, change "polarization axis" to --polarization axes--

Line 27, after "delay paths" insert --,--

Line 38, change "pa length" to --path length--

Line 42, after "refraction "n"" insert --of--

Line 46, after "a vacuum" insert --,--

Line 62, change " L_{12} - L_{22} " to -- L_{12} and L_{22} --

Column 21,

Line 3, change "follow" to --following--

Line 37, change "optical p length" to --optical path length--

Line 49, change " L_i and L_j " to -- L_i and L_j --

Line 49, change "path length" to --path lengths--

Column 22,

Line 10, change "the bean" to --the beam--

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Line 19, change "angle Φ_1 " to -- angle Φ_2 --
 Line 21, change "shows the" to --shows both the--
 Line 22, change "vectors, P_2 , S_2 " to --vectors P_2 , S_2 --
 Line 34, change "2¹ or 4" to --2² or 4--
 Line 36, change "the fit cell" to --the first cell--
 Line 45, change "1st to 4 th paths" to --1st to 4th paths--
 Line 61, change "optical stream" to --optical streams--
 Line 63, change "optical stream" to --optical streams--
 Line 65, change "can substantially" to --can be substantially--
 Line 66, change "45 degree" to --45 degrees--
 Line 67, change "(45+22.5) degree." to --(45 + 22.5) degrees.--

Column 23,

Line 1, change "and a cell" to --and a 2nd cell--
 Line 21, change "C.R. Henry" to --C.H. Henry--
 Line 29, change "Passive Thermal" to --Passive Thermal--
 Line 32, change "mux/demux" to --mux/demux.--
 Line 59, change "across a rage" to --across a range--

Column 24,

Line 9, change "dosed loop" to --closed loop--
 Line 10, change "any increase" to --may increase--
 Line 14, change "which nuke" to --which make--
 Line 34, change "p," to --paths,--
 Line 56, change " a_i and a_4 " to -- α_i and α_4 --
 Line 58, change "respective" to --respectively--

Column 25,

Line 15, change "Row 7" to --Row 4--
 Line 16, change "thermal expansion a" to --thermal expansion α --

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Lines 18-19, change "components" to --component--
Line 22, change "forms 35 degree" to --forms a 35 degree--
Line 23, change "to bottom surface" to --the bottom surface--
Line 25, change "width is" to --width in--
Line 49, after "are increased" insert --,--
Line 60, change "with the sequence." to --within the sequence.--
Line 63, change "beans 1160-1162" to --beams 1160-1162--

Column 26,

Line 15, after "pair θ_{R2} " insert --,--
Line 29, after "beams 1160-1162" insert --,--
Line 36, change "FIG. 10A" to --FIG. 10A--
Line 39, change "delay path" to --delay path--
Line 41, change "propagation path" to --propagation path--
Line 56, change " θ_{R1} and θ_{r1} " to -- θ_{R1} and θ_{T1} --
Line 58, before "Equations 4-5," remove [equations]
Line 59, change "and with θ_{r1} ," to --and with θ_{T1} --
Line 65, change "transmission A)" to --transmission (T)--

Column 27,

Line 6, change " L_1 and L_1' " to -- L_1 and L_1' --
Line 8, after "paths θ_{R1} " remove [,]
Line 9, change "and θ_{R1} ," to --and θ_{T1} ."
Line 11, after "100 GHz" insert --,--
Line 17, after "FIG. 10A" insert --,--
Line 18, after "polarized light" remove [that]
Line 34, change " $\theta_{R1} > \theta_{R2}$," to -- $\theta_{R1} > \theta_{R2}$,--
Line 48, after "corresponding path" insert --,--
Line 57, after "filter transform" insert --,--
Line 59, after "the example" insert --is--

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Column 28,

Line 6, change "fat top profile" to --flat top profile--

Line 7, change "FIG." to --FIGS.--

Line 14, change "well know" to --well known--

Line 17, change "echausive" to --exhaustive--

Line 18, change "disclosed:" to --disclosed.--

Column 29,

Line 51, change "process optical signals," to --processes optical signals,--

Column 30,

Line 53, change "process optical signals" to --processes optical signals,--

Column 31,

Line 19, change "comb filer function;" to --comb filter function;--

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Cover Page,

Item (54), after "DIVISION" change "MULTIPLED" to --MULITPLEXED--

Column 1,

Line 19, after "optical" change "filers" to --filters--

Line 31, change "different portion," to --different portions,--

Line 50, change "processes" to --process--

Line 57, change "Battening" to --flattening--

Column 2,

Line 20, before "dispersion" insert --the--

Line 21, change "filter" to --filters--

Line 21, after "OC-192" change "signal" to --signals--

Column 3,

Line 30, after "will become" change "ore" to --more--

Line 40, change "dispersions profiles" to --dispersion profiles--

Column 4,

Line 36, change "EMBODIMENT" to --EMBODIMENTS--

Line 44, after "mux/demux can" insert --,--

Column 5,

Line 30, after "delay path" change "with" to --within--

Line 53-54, change "Others of the cells," to --Other cells,--

Line 54, after "harmonic cell(s)" insert --,--

Line 60, after "of the cells" insert --,--

Line 63, change "GHzThe" to --GHz. The--

Line 64, after "paths in a filter" remove [,]

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Column 6,

Line 5, change "L_i and L_j" to --L_i and L_j--
 Line 6, after "substage" insert --,--
 Line 7, after "cells" remove [,]
 Line 9, after "cell" insert --,--
 Line 40, change "theft" to --the first--
 Line 42, after "dispersion" change "in" to --within--
 Line 43, after "signal integrity" insert --within--
 Line 49, change "FIGS. 2A-8" to --FIGS. 2A-B--

Column 7,

Line 2, change "Cb 9-Ch 13," to --Ch 9-Ch 13,--
 Line 3, after "the vertical" change "was" to --axis--
 Line 37, change "380° to 720°" to --360° to 720°--
 Line 45, after "even channels" change "experience" to --experiencing--
 Line 53, after "retardations of" remove [the]

Column 8,

Line 6, after "flat line response" insert --,--
 Line 7, change "stop bends" to --stop bands--
 Line 10, change "sign diagrams" to --signal diagrams--
 Line 14, change "fist and slow pats" to --fast and slow paths--
 Line 22, after "in this example" insert --,--
 Line 54, after "in this example" insert --,--

Column 9,

Line 25, change "Supposed" to --Superimposed--
 Line 58, before "port 136" change "renaming" to --remaining--

Column 10,

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Line 9, after "Path 516 would" remove [in]
 Line 34, before "cell 570." change "with" to --within--
 Line 41, after "The couplers" remove [may]
 Line 51, change "sub-stages" to --sub-stage's--
 Line 58, after "stopbands" remove [of]
 Line 65, change "do-interleaved" to --de-interleaved--

Column 11,

Line 10, after "couple would" remove [of]
 Line 37, before "be fabricated" change "ma" to --may--
 Line 38, after "dielectric" change "coat" to --coatings--
 Line 42, change "filters 630 and 66." to --filters 630 and 660.--

Column 12,

Line 4, change "fist path," to --fast path,--
 Line 21, after "Where the cell" change "if" to --is--
 Line 30, change "two filter calls," to --two filters cells,--
 Line 30, change "serial coupled" to --serially coupled--
 Line 31, between "Each" and "serially" insert the following missing line:
 --cell includes a pair of delay paths. Filter 660 also includes two
 filter cells 670, 680--
 Line 35, change "Del" to --Delay--
 Line 54, change "sub-stages" to --sub-stage's--
 Line 61, after "stopbands" remove [of]

Column 13,

Line 8, after "half waveplate" insert --,
 Line 10, after "polarization vector" remove [,]
 Line 13, after "amount 2Φ " insert --,
 Line 16, after "full waveplate" insert --,

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Line 17, change "polarized light" to --polarized light--

Line 19, after "polarization vector" remove [,]

Line 22, after "FIGS. 7A-D" insert --,

Line 62, after "The linearly" change "polar" to --polarized--

Column 14,

Line 15, before "by waveplates" change "polarized" to --linearized--

Line 25, before "the incident wavelength." remove [A]

Line 28, change "optical bean" to --optical beam--

Line 63, change "Light transit" to --Light transmitted--

Column 15,

Line 4, change "realigns" to --re-aligns--

Line 15, change "beam splitter 134" to --beam splitter 1134--

Line 21, after "beam splitter" change "are" to --is--

Line 23, change "fist coupler" to --first coupler--

Line 24, change "corresponded" to --correspond--

Line 35, after "two pairs of" change "prism." to --prisms.--

Line 35, change "block 110" to --block 1110--

Line 36, change "beam splitter 114" to --beam splitter 1114--

Line 50, change "exterior surfs" to --exterior surfaces--

Line 54, change "second block 130." to --second block 1130.--

Column 16,

Line 35, change "vectors 156-1158." to --vectors 1156-1158.--

Line 37, after "center wavelengths" insert --,--

Line 62, change "reflectors 1112 and 1130" to --reflectors 1112 and 1132--

Column 17,

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Line 67, before "either delay path" remove [the]

Column 18,

Line 10, change " θ_{r1} and θ_{R1} " to -- θ_{T1} and θ_{R1} --

Line 40, change "component" to --components--

Line 41, before "a net change" insert --in--

Line 50, change "is shown is cleaved" to --is shown cleaved--

Column 19,

Line 28, change "are rennin" to --are realized--

Line 43, change "cell 100" to --cell 1100--

Line 46, change "cell 100" to --cell 1100--

Column 20,

Line 9, change "polarization axis" to --polarization axes--

Line 27, after "delay paths" insert --,--

Line 38, change "pa length" to --path length--

Line 42, after "refraction "n"" insert --of--

Line 46, after "a vacuum" insert --,--

Line 62, change " L_{12} - L_{22} " to -- L_{12} and L_{22} --

Column 21,

Line 3, change "follow" to --following--

Line 37, change "optical p length" to --optical path length--

Line 49, change " L_i and L_j " to -- L_i and L_j --

Line 49, change "path length" to --path lengths--

Column 22,

Line 10, change "the bean" to --the beam--

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PATENT NO. US 6,845,191 B1

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : US 6,845,191 B1

DATED : Jan 18, 2005

INVENTOR(S) : Xie et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 19, change "angle Φ_1 " to -- angle Φ_2 --
 Line 21, change "shows the" to --shows both the--
 Line 22, change "vectors, P_2, S_2 " to --vectors P_2, S_2 --
 Line 34, change "2¹ or 4" to --2² or 4--
 Line 36, change "the fit cell" to --the first cell--
 Line 45, change "1st to 4 th paths" to --1st to 4th paths--
 Line 61, change "optical stream" to --optical streams--
 Line 63, change "optical stream" to --optical streams--
 Line 65, change "can substantially" to --can be substantially--
 Line 66, change "45 degree" to --45 degrees--
 Line 67, change "(45+22.5) degree." to --(45 + 22.5) degrees--

Column 23,

Line 1, change "and a cell" to --and a 2nd cell--
 Line 21, change "C.R. Henry" to --C.H. Henry--
 Line 29, change "Passive Thermal" to --Passive Thermal--
 Line 32, change "mux/demux" to --mux/demux--
 Line 59, change "across a rage" to --across a range--

Column 24,

Line 9, change "dosed loop" to --closed loop--
 Line 10, change "any increase" to --may increase--
 Line 14, change "which nuke" to --which make--
 Line 34, change "p," to --paths,--
 Line 56, change " a_i and a_4 " to -- α_i and α_4 --
 Line 58, change "respective" to --respectively--

Column 25,

Line 15, change "Row 7" to --Row 4--
 Line 16, change "thermal expansion a" to --thermal expansion α --

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Lines 18-19, change "components" to --component--
Line 22, change "forms 35 degree" to --forms a 35 degree--
Line 23, change "to bottom surface" to --the bottom surface--
Line 25, change "width is" to --width in--
Line 49, after "are increased" insert --,--
Line 60, change "with the sequence." to --within the sequence.--
Line 63, change "beans 1160-1162" to --beams 1160-1162--

Column 26,

Line 15, after "pair θ_{R2} " insert --,--
Line 29, after "beams 1160-1162" insert --,--
Line 36, change "FIG. 10A" to --FIG. 10A--
Line 39, change "delay path" to --delay path--
Line 41, change "propagation path" to --propagation path--
Line 56, change " θ_{R1} and θ_{r1} " to -- θ_{R1} and θ_{r1} --
Line 58, before "Equations 4-5," remove [equations]
Line 59, change "and with θ_{r1} ," to --and with θ_{r1} --
Line 65, change "transmission A)" to --transmission (T)--

Column 27,

Line 6, change " L_1 and L_1 " to -- L_1 and L_j --
Line 8, after "paths θ_{R1} " remove [,]
Line 9, change "and θ_{R1} ." to --and θ_{T1} ."
Line 11, after "100 GHz" insert --,--
Line 17, after "FIG. 10A" insert --,--
Line 18, after "polarized light" remove [that]
Line 34, change " $\theta_{R1} > \theta_{R2}$, " to -- $\theta_{R1} > \theta_{R2}$,--
Line 48, after "corresponding path" insert --,--
Line 57, after "filter transform" insert --,--
Line 59, after "the example" insert --is--

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Column 28,

Line 6, change "fat top profile" to --flat top profile--

Line 7, change "FIG." to --FIGS.--

Line 14, change "well know" to --well known--

Line 17, change "echausive" to --exhaustive--

Line 18, change "disclosed:" to --disclosed.--

Column 29,

Line 51, change "process optical signals," to --processes optical signals,--

Column 30,

Line 53, change "process optical signals" to --processes optical signals,--

Column 31,

Line 19, change "comb filer function;" to --comb filter function;--

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